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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/912,559

DATE: 11/26/2001
 TIME: 12:42:26

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3 <110> APPLICANT: ROEMISCH, JUERGEN
4   STOEHR, HANS-ARNOLD
5   FEUSSNER, ANNETTE
6   LANG, WIEGAND
7   WEIMER, THOMAS
8   BECKER, MARGRET
9   NERLICH, CLAUDIA
10  MUTH-NAUMANN, GUDRUN
12 <120> TITLE OF INVENTION: MUTANTS OF THE FACTOR VII-ACTIVATING PROTEASE AND
13 DETECTION METHODS USING SPECIFIC ANTIIBODIES
15 <130> FILE REFERENCE: 06478.1457
17 <140> CURRENT APPLICATION NUMBER: 09/912,559
18 <141> CURRENT FILING DATE: 2001-07-26
20 <150> PRIOR APPLICATION NUMBER: DE 100 36 641.4
21 <151> PRIOR FILING DATE: 2000-07-26
23 <150> PRIOR APPLICATION NUMBER: DE 100 50'040.4
24 <151> PRIOR FILING DATE: 2000-10-10
26 <150> PRIOR APPLICATION NUMBER: DE 100 52 319.6
27 <151> PRIOR FILING DATE: 2000-10-21
29 <150> PRIOR APPLICATION NUMBER: DE 101 18 706.8
30 <151> PRIOR FILING DATE: 2001-04-12
32 <160> NUMBER OF SEQ ID NOS: 4
34 <170> SOFTWARE: PatentIn Ver. 2.1
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39 <213> ORGANISM: Homo sapiens
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58 acggcggggca agcacccatg gcaggcgtcc ctccagtcct cgtgcctctc gaccatctcc 1020
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61 aagaagaaga aatttcata gacagacttt aggggtggaga agatattcaa gtacagccac 1200
62 tacaatgaaa gagatgagat tcccacaaat gatattgcat tgcctcaagt aaagccagtg 1260
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111 <211> LENGTH: 560
112 <212> TYPE: PRT
113 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 3

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116 Met Phe Ala Arg Met Ser Asp Leu His Val Leu Leu Leu Met Ala Leu
117 1 5 10 15
119 Val Gly Lys Thr Ala Cys Gly Phe Ser Leu Met Ser Leu Leu Glu Ser
120 20 25 30
122 Leu Asp Pro Asp Trp Thr Pro Asp Gln Tyr Asp Tyr Ser Tyr Glu Asp
123 35 40 45
125 Tyr Asn Gln Glu Glu Asn Thr Ser Ser Thr Leu Thr His Ala Glu Asn
126 50 55 60
128 Pro Asp Trp Tyr Tyr Thr Glu Asp Gln Ala Asp Pro Cys Gln Pro Asn
129 65 70 75 80
131 Pro Cys Glu His Gly Gly Asp Cys Leu Val His Gly Ser Thr Phe Thr
132 85 90 95
134 Cys Ser Cys Leu Ala Pro Phe Ser Gly Asn Lys Cys Gln Lys Val Gln
135 100 105 110
137 Asn Thr Cys Lys Asp Asn Pro Cys Gly Arg Gly Gln Cys Leu Ile Thr
138 115 120 125
140 Gln Ser Pro Pro Tyr Tyr Arg Cys Val Cys Lys His Pro Tyr Thr Gly
141 130 135 140
143 Pro Ser Cys Ser Gln Val Val Pro Val Cys Arg Pro Asn Pro Cys Gln
144 145 150 155 160
146 Asn Gly Ala Thr Cys Ser Arg His Lys Arg Arg Ser Lys Phe Thr Cys
147 165 170 175
149 Ala Cys Pro Asp Gln Phe Lys Gly Lys Phe Cys Glu Ile Gly Ser Asp
150 180 185 190
152 Asp Cys Tyr Val Gly Asp Gly Tyr Ser Tyr Arg Gly Lys Met Asn Arg
153 195 200 205
155 Thr Val Asn Gln His Ala Cys Leu Tyr Trp Asn Ser His Leu Leu Leu
156 210 215 220
158 Gln Glu Asn Tyr Asn Met Phe Met Glu Asp Ala Glu Thr His Gly Ile
159 225 230 235 240
161 Gly Glu His Asn Phe Cys Arg Asn Pro Asp Ala Asp Glu Lys Pro Trp
162 245 250 255
164 Cys Phe Ile Lys Val Thr Asn Asp Lys Val Lys Trp Glu Tyr Cys Asp
165 260 265 270
167 Val Ser Ala Cys Ser Ala Gln Asp Val Ala Tyr Pro Glu Glu Ser Pro
168 275 280 285
170 Thr Glu Pro Ser Thr Lys Leu Pro Gly Phe Asp Ser Cys Gly Lys Thr
171 290 295 300
173 Glu Ile Ala Glu Arg Lys Ile Lys Arg Ile Tyr Gly Gly Phe Lys Ser
174 305 310 315 320
176 Thr Ala Gly Lys His Pro Trp Gln Ala Ser Leu Gln Ser Ser Leu Pro
177 325 330 335
179 Leu Thr Ile Ser Met Pro Gln Gly His Phe Cys Gly Gly Ala Leu Ile
180 340 345 350
182 His Pro Cys Trp Val Leu Thr Ala Ala His Cys Thr Asp Ile Lys Thr
183 355 360 365
185 Arg His Leu Lys Val Val Leu Gly Asp Gln Asp Leu Lys Lys Glu Glu
186 370 375 380
188 Phe His Glu Gln Ser Phe Arg Val Glu Lys Ile Phe Lys Tyr Ser His

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189 385                               390                               395                               400
191 Tyr Asn Glu Arg Asp Glu Ile Pro His Asn Asp Ile Ala Leu Leu Lys
192                               405                               410                               415
194 Leu Lys Pro Val Asp Gly His Cys Ala Leu Glu Ser Lys Tyr Val Lys
195                               420                               425                               430
197 Thr Val Cys Leu Pro Asp Gly Ser Phe Pro Ser Gly Ser Glu Cys His
198                               435                               440                               445
200 Ile Ser Gly Trp Gly Val Thr Glu Thr Gly Lys Gly Ser Arg Gln Leu
201                               450                               455                               460
203 Leu Asp Ala Lys Val Lys Leu Ile Ala Asn Thr Leu Cys Asn Ser Arg
204 465                               470                               475                               480
206 Gln Leu Tyr Asp His Met Ile Asp Asp Ser Met Ile Cys Ala Gly Asn
207                               485                               490                               495
209 Leu Gln Lys Pro Gly Gln Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro
210                               500                               505                               510
212 Leu Thr Cys Glu Lys Asp Gly Thr Tyr Tyr Val Tyr Gly Ile Val Ser
213                               515                               520                               525
215 Trp Gly Leu Glu Cys Gly Lys Arg Pro Gly Val Tyr Thr Gln Val Thr
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223 <211> LENGTH: 560
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232                               20                               25                               30
234 Leu Asp Pro Asp Trp Thr Pro Asp Gln Tyr Asp Tyr Ser Tyr Glu Asp
235                               35                               40                               45
237 Tyr Asn Gln Glu Glu Asn Thr Ser Ser Thr Leu Thr His Ala Glu Asn
238                               50                               55                               60
240 Pro Asp Trp Tyr Tyr Thr Glu Asp Gln Ala Asp Pro Cys Gln Pro Asn
241 65                               70                               75                               80
243 Pro Cys Glu His Gly Gly Asp Cys Leu Val His Gly Ser Thr Phe Thr
244                               85                               90                               95
246 Cys Ser Cys Leu Ala Pro Phe Ser Gly Asn Lys Cys Gln Lys Val Gln
247                               100                              105                              110
249 Asn Thr Cys Lys Asp Asn Pro Cys Gly Arg Gly Gln Cys Leu Ile Thr
250                               115                              120                              125
252 Gln Ser Pro Pro Tyr Tyr Arg Cys Val Cys Lys His Pro Tyr Thr Gly
253                               130                              135                              140
255 Pro Ser Cys Ser Gln Val Val Pro Val Cys Arg Pro Asn Pro Cys Gln
256 145                              150                              155                              160
258 Asn Gly Ala Thr Cys Ser Arg His Lys Arg Arg Ser Lys Phe Thr Cys
259                               165                              170                              175
261 Ala Cys Pro Asp Gln Phe Lys Gly Lys Phe Cys Glu Ile Gly Ser Asp

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264 Asp Cys Tyr Val Gly Asp Gly Tyr Ser Tyr Arg Gly Lys Met Asn Arg
265      195      200      205
267 Thr Val Asn Gln His Ala Cys Leu Tyr Trp Asn Ser His Leu Leu Leu
268      210      215      220
270 Gln Glu Asn Tyr Asn Met Phe Met Glu Asp Ala Glu Thr His Gly Ile
271 225      230      235      240
273 Gly Glu His Asn Phe Cys Arg Asn Pro Asp Ala Asp Glu Lys Pro Trp
274      245      250      255
276 Cys Phe Ile Lys Val Thr Asn Asp Lys Val Lys Trp Glu Tyr Cys Asp
277      260      265      270
279 Val Ser Ala Cys Ser Ala Gln Asp Val Ala Tyr Pro Glu Glu Ser Pro
280      275      280      285
282 Thr Glu Pro Ser Thr Lys Leu Pro Gly Phe Asp Ser Cys Gly Lys Thr
283      290      295      300
285 Glu Ile Ala Glu Arg Lys Ile Lys Arg Ile Tyr Gly Gly Phe Lys Ser
286 305      310      315      320
288 Thr Ala Gly Lys His Pro Trp Gln Ala Ser Leu Gln Ser Ser Leu Pro
289      325      330      335
291 Leu Thr Ile Ser Met Pro Gln Gly His Phe Cys Gly Gly Ala Leu Ile
292      340      345      350
294 His Pro Cys Trp Val Leu Thr Ala Ala His Cys Thr Asp Ile Lys Thr
295      355      360      365
297 Arg His Leu Lys Val Val Leu Gly Asp Gln Asp Leu Lys Lys Glu Glu
298      370      375      380
300 Phe His Glu Gln Ser Phe Arg Val Gln Lys Ile Phe Lys Tyr Ser His
301 385      390      395      400
303 Tyr Asn Glu Arg Asp Glu Ile Pro His Asn Asp Ile Ala Leu Leu Lys
304      405      410      415
306 Leu Lys Pro Val Asp Gly His Cys Ala Leu Glu Ser Lys Tyr Val Lys
307      420      425      430
309 Thr Val Cys Leu Pro Asp Gly Ser Phe Pro Ser Gly Ser Glu Cys His
310      435      440      445
312 Ile Ser Gly Trp Gly Val Thr Glu Thr Gly Lys Gly Ser Arg Gln Leu
313      450      455      460
315 Leu Asp Ala Lys Val Lys Leu Ile Ala Asn Thr Leu Cys Asn Ser Arg
316 465      470      475      480
318 Gln Leu Tyr Asp His Met Ile Asp Asp Ser Met Ile Cys Ala Gly Asn
319      485      490      495
321 Leu Gln Lys Pro Gly Gln Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro
322      500      505      510
324 Leu Thr Cys Glu Lys Asp Gly Thr Tyr Tyr Val Tyr Gly Ile Val Ser
325      515      520      525
327 Trp Gly Leu Glu Cys Glu Lys Arg Pro Gly Val Tyr Thr Gln Val Thr
328      530      535      540
330 Lys Phe Leu Asn Trp Ile Lys Ala Thr Ile Lys Ser Glu Ser Gly Phe
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